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A BRITAGA TIONING	FILING DATE	CIDOT NAMED BUILDING	ATTORNEY DOCKET NO.	CONFIRMATION NO.
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNET DOCKET NO.	CONFIRMATION NO.
09/966,261	10/01/2001	Tomohiko Hattori	110739	5141
25944 75	590 09/16/2004		EXAMINER	
OLIFF & BERRIDGE, PLC			CHANG, RICK KILTAE	
P.O. BOX 1992	28			D . DUD
ALEXANDRIA	A, VA 22320		ART UNIT	PAPER NUMBER
			3729	
			DATE MAILED: 09/16/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

1			714
	Application No.	Applicant(s)	
	09/966,261	HATTORI, TOMOHIKO	
Office Action Summary	Examiner	Art Unit	
	Rick K. Chang	3729	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet	with the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above, the maximum statutory perions - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, may pply within the statutory minimum of to d will apply and will expire SIX (6) M tute cause the application to become	a reply be timely filed hirty (30) days will be considered timely. ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed on 17 2a)□ This action is FINAL. 2b)⊠ The 3)□ Since this application is in condition for allow closed in accordance with the practice under the second	nis action is non-final. vance except for formal m		
Disposition of Claims			
4) Claim(s) 1-20 is/are pending in the application 4a) Of the above claim(s) 9-20 is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1-8 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and application Papers 9) The specification is objected to by the Examusion 10) The drawing(s) filed on is/are: a) application 2.	iwn from consideration. d/or election requirement. iner. accepted or b) objected	to by the Examiner.	
Applicant may not request that any objection to t Replacement drawing sheet(s) including the corr 11) The oath or declaration is objected to by the	ection is required if the draw	ing(s) is objected to. See 37 CFR 1.121(d)).
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the papplication from the International Bur * See the attached detailed Office action for a	ents have been received. ents have been received i priority documents have be eau (PCT Rule 17.2(a)).	n Application No een received in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB. Paper No(s)/Mail Date 12/3/02.	Paper (708) 5) Notice	ew Summary (PTO-413) No(s)/Mail Date of Informal Patent Application (PTO-152) 	

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Application/Control Number: 09/966,261

Art Unit: 3729

DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of claims 1-8 in the reply filed on 7/17/04 is acknowledged. The traversal is on the ground(s) that there is no burden to search all claims. This is not found persuasive because applicants did not distinctly and specifically point out the supposed errors in the restriction requirement. Further, these inventions are distinct for the reasons given in the Restriction requirement and have acquired a separate status in the art as shown by their different classification and/or have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper. Furthermore, Applicant's traverse of the requirement for election of species is noted, asserting that there is no serious burden on the examiner to examine all claims. The traverse has been carefully considered, but is not persuasive because the reasons proffered do not appear germane to the propriety of a requirement for election of species. The sections of the manual cited relate to restriction, not a requirement for election of species, which is clearly covered in section 808.01(a). Once the claims are determined to be directed to mutually patentable inventions and the Office requires an election of species, a persuasive traverse is an admission on the record that applicant does not find the claimed species are patentable, one over the other. Having not done so, the reasons presented are not persuasive. Applicant is not entitled to examination of multiple independent inventions in one application. Moreover, examination of the independent inventions herein would clearly present a burden because the searches will not be coextensive. Accordingly, the requirement is repeated and made final.

The requirement is still deemed proper and is therefore made FINAL.

Specification

2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

3. The abstract of the disclosure is objected to because it fails to corresponds with the elected claim subject matter. Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 1. Claims 1, 3-5 and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Metz (US 3,998,377).

Metz discloses operating at least one image-taking device (46 is from an observer); detecting the position of the PCB (col. 6, lines 54-57); 20 is at least one indicium (area where 46 intersects with 20 in Fig. 1) formed on the back of PCB predetermined postional relationship with 18; an observer has two eyes that are located at respective positions in Figs. 1-2 before brought

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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3. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Metz (US 3,998,377) in view of Salatino et al (US 5,887,343).

Metz fails to disclose at least one fiducial mark.

Salatino disclose at least one fiducial mark (24).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Metz by providing at least one fiducial mark, as taught by Salatino, for the purpose of cheaply aligning different electronic devices.

4. Claims 6-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Metz (US 3,998,377) in view of Radobenko (US 3,695,501), and further in view of Tsuda et al (US 3,625,127).

Metz fails to disclose image-taking devices are located at the respective positions before the PCB is held by the supporting device and manually locating the plurality of image-taking devices.

Radobenko discloses image-taking devices are located at the respective positions before the PCB is held by the supporting device (col. 3, lines 10-24).

Tsuda discloses manually locating the plurality of image-taking devices (Abstract).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Metz by image-taking devices are located at the respective positions before the PCB is held by the supporting device and manually locating the plurality of image-taking devices, as taught by Radobenko and Tsuda, for the purpose of saving mounting space and simultaneously operating the switch and the knob.

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5. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Metz (US 3,998,377) in view of Hofmeister (US 3,747,829).

Metz teaches the invention as described with respect to claims 1-7.

Metz fails to disclose detecting a positioning error of PCB and compensating based on the positioning error.

Hofmeister discloses detecting a positioning error of PCB and compensating based on the positioning error (col. 5, lines 42-67).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Metz by detecting a positioning error of PCB and compensating based on the positioning error, as taught by Hofmeister, for the purpose of providing good bonding between electronic devices.

Conclusion

6. Please provide reference numerals (either in parentheses next to the claimed limitation or in a table format with one column listing the claimed limitation and another column listing corresponding reference numerals in the remark section of the response to the Office Action) to all the claimed limitations as well as support in the disclosure for better clarity (optional). Applicants are duly reminded that a full and proper response to this Office Action that includes any amendment to the claims and specification of the application as originally filed requires that the applicant point out the support for any amendment made to the disclosure, including the claims. See 37 CFR 1.111 and MPEP 2163.06.

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7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rick K. Chang whose telephone number is (703) 308-4784. The examiner can normally be reached on 5:30 AM to 1:30 PM, Monday through Thursday.

The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9302 for regular communications and (703) 872-9303 for After Final communications.

RICHARD CHANG PRIMARY EXAMINER

RC September 15, 2004